INDEX TO VOLUME 14, FOREST SCIENCE, 1968

Art.—article; rev.—review; art. (rev.)—review of article or book by.

BY TITLE OR KEY WORDS IN TITLE

Adhesives for foliar application of chemicals. Evaluation of. art. 39
Alder, red. Development of a system of taper and volume tables for. art. 339
Amino acids, free and protein-bound, in inner bark of loblolly pine. art. 330
Aspen haploid production. The use of heat-treated pollen for. art. 406
Aspen, quaking, and incidence of hypoxylon canker. Relationship between density of. art. 107
Aspen, quaking, bark chloroplasts. Hill reaction capacity of isolated. art. 222
Australian evergreen, Moraine ash, and Peruvian peppertree. First season growth of. art. 325
Auxin and cell wall formation in the cambial derivatives of pine and cottonwood. art. 197
Auxin inhibition of epicormic shoots in white oak. art. 192
Basal bud burls in Betula populifolia. art. 64
Beetle, Columbian timber, Corthylus columbianus. VII. The effect of climatic integrants on historic density fluctuations. art. 242
Betula populifolia. Basal bud burls in. art. 64
Biology of wood-destroying fungi. rev. 101
Biomass, forest. Determination of. art. 13
Birch canopy during May and June. Solar radiation measurements under a spruce and a. art. 31
Burls in Betula populifolia. Basal bud. art. 64
Burning, effects of. Carbohydrate reserves of saw-palmetto: Seasonal variation and. art. 399
Cambial activity. A computer model for. art. 77
Cambial derivatives of pine and cottonwood. Auxin and cell wall formation in the. art. 197
Campgrounds, Adirondack. Models that describe use of. art. 383
Campsite use. Socioeconomic variables related to. art. 45
Carbohydrate reserves of saw-palmetto: Seasonal variation and effects of burning. art. 399
Carbohydrates, available, in planted loblolly pine root systems. Distribution of. art. 301
Ceanothus velutinus. Relation of previous timber stand age to nodulation of. art. 114
Cell wall formation in the cambial derivatives of pine and cottonwood. Auxin and. art. 197
Chemical and morphological differences between sapwood, discolored sapwood, and heartwood in black locust and osage orange. art. 334
Chemical composition of turpentine from Pinus khasya. art. 55
Chemicals. Evaluation of adhesives for foliar application of. art. 39
Chemical verification of the hybrid of Pinus monticola and Pinus flexilis. art. 119
Classification of climate by principal component analysis and its relationship to tree species distribution. art. 254
Climate, classification of, by principal component analysis and its relationship to tree species distribution. art. 254
Climate, winter, at seed source. Sweetgum seed stratification requirements related to. art. 16
Climatic integrants, the effect of, on historic density fluctuations. Columbian timber beetle, Corthylus columbianus. VII. art. 242
Collection and vacuum distillation of small oleoresin samples. art. 190
Columbian timber beetle, Corthylus columbianus. VII. The effect of climatic integrants on historic density fluctuations. art. 242
Comparative seedling growth of four hardwood species. art. 27
Comparison of the translocation and persistence of cycloheximide (Acti-dione) in eastern and western white pine. art. 275
Computer model for cambial activity. art. 77
Computer program used for determination of variance components. VARCOM. art. 419
Conifer associates and mycorrhizal syntheses of some Pacific Northwest Suillus species. art. 304
Conifers. The problem of sampling in studies of tracheid length in. art. 140
Coniophora puteana and Polyporus tomentosus in living and dying white spruce. Rates of decay by. art. 122
Cottonwood. Weekly height growth of. art. 212
Cottonwood and pine. Auxin and cell wall formation in the cambial derivatives of. art. 197
Culture of pine callus on a defined medium. art. 62
Cycloheximide (Acti-dione) in eastern and western white pine. Comparison of the translocation and persistence of. art. 275
Decay by Coniophora puteana and Polyporus tomentosus in living and dying white spruce. Rates of. art. 122

Depth to ground water and fertilization on wood deposition in red pine. The effect of. art. 2
Determination of forest biomass. art. 13
Development of a system of taper and volume tables for red alder. art. 339
Distance measures in sampling for spatial distribution in forest stands. A Monte Carlo study of. art. 127
Distribution of available carbohydrates in planted loblolly pine root systems. art. 301
Distribution, tree species. Classification of climate by principal component analysis and its relationship to. art. 254
Dormancy of stored loblolly pine seed. Moisture content influences. art. 219
Douglas-fir, scheduling reforestation investments: A comparison of methods. art. 354
Duration of stump susceptibility of loblolly pine to infection by Fomes annosus. art. 206
Dyes, introduced. Fixation in tissue of loblolly pine. art. 170
Dynamic programming to determine optimum levels of growing stock. art. 287
Ecology of insect population in theory and practice. rev. 351
Ecology of the alpine timberline. rev. 147
Effect of climatic integrants on historic density fluctuations. Columbian timber beetle, Corthylus columbianus. VII. art. 242
Effect of fertilization and depth to ground water on wood deposition in red pine. art. 2
Effects of fertilization, irrigation, and cover cropping on flowering and on nitrogen and soluble sugar composition of slash pine. art. 172
Effect of two phosphatic fertilizers on yield, financial yield, and wood quality of radiata pine. art. 282
Epicormic shoots in white oak. Auxin inhibition of. art. 192
European bark beetle, smaller. p-Hydroxybenzaldehyde and other phenolics as feeding stimulants for. art. 91
Evaluation of adhesives for foliar application of chemicals. art. 39
Evaluation of the pressure chamber technique for estimating plant water potential of forest tree species. art. 369
Extractive content, specific gravity, and tracheid length in redwood trees. Variation of. art. 148
Feeding stimulants for the smaller European bark beetle. p-Hydroxybenzaldehyde and other phenolics as. art. 91
Fertilization and depth to ground water on wood deposition in red pine. The effect of. art. 2
Fertilization, irrigation, and cover cropping, effects of, on flowering and on nitrogen and soluble sugar composition of slash pine. art. 172
Fertilizers, phosphatic. Effect of two on yield, financial yield, and wood quality of radiata pine. art. 282
First-season growth of Moraine ash, an Australian evergreen, and Peruvian peppertree. art. 325
Fixation of introduced dyes in tissue of loblolly pine. art. 170
Foliar application of chemicals. Evaluation of adhesives for. art. 39
Foliar uptake of herbicides in woody plants. The role of light, concentration, and species in. art. 164
Fomes annosus. Duration of stump susceptibility of loblolly pine to infection by. art. 206
Forest economics (Forstliche Betriebswirtschaftslehre). rev. 286
Forest management. The theory of decision under uncertainty and possible applications in. art. 156
Forest measurements. rev. 38
Forest mensuration. rev. 454
Forestry theses accepted by colleges and universities in the United States. art. 224
Free and protein-bound amino acids in inner bark of loblolly pine. art. 330
Fuel sampling. The line intersect method in forest. art. 20
Fungi, pythiaceous, isolated from southern forest nursery soils and their pathogenicity to pine seedlings. art. 292
Fungi, wood-destroying. Biology of. rev. 101
Gehölzphysiologie. rev. 196
Germination of acorns from oaks treated with systemic insecticides. art. 427
Growth in relation to density for slash pine plantations after first thinning. art. 7
Growth of horizontal roots, height, and diameter of planted slash pine. art. 265
Hardwood species, four. Comparative seedling growth of. art. 27
Height growth of cottonwood. Weekly. art. 212
Herbicides in woody plants. The role of light, concentration, and species in foliar uptake of. art. 164
Hill reaction capacity of isolated quaking aspen bark chloroplasts. art. 222
Hungarian Forest Research Institute. rev. 171
Hybrid of Pinus monticola and Pinus flexilis. Chemical verification of the. art. 119

Hydrogen peroxide increases germination and reduces microflora on seed of several Southwestern woody species. art. 96
Hypoxylon canker. Relationship between density of quaking aspen and incidence of. art. 107
Individual tree growth, predictability of. Using various definitions of competing basal area. art. 314
Inheritance of spiral grain in young loblolly pine. art. 376
Insects, tree-wounding, as vectors of the oak wilt fungus. art. 181
International review of forestry research, Volume 2. rev. 398
International symposium of forest hydrology. rev. 374
Intratree measurements of the monoterpene composition of ponderosa pine xylem resin. art. 418
Jack-pine budworm. Technique for sampling populations of the. art. 277
Laboratory device for weight-sorting tree seed. art. 217
Life zone ecology. rev. 382
Light, concentration, and species in foliar uptake of herbicides in woody plants. The role of. art. 164
Line intersect method in forest fuel sampling. art. 20
Locust, black, and osage orange. Morphological and chemical differences between sapwood, discolored sapwood, and heartwood in. art. 334
Measurement of oleoresin exudation pressure in loblolly pine. art. 75
Microflora on seed of several Southwestern woody species. Hydrogen peroxide increases germination and reduces. art. 96
Microsite and height growth of yellow-poplar. art. 420
Models that describe use of Adirondack campgrounds. art. 383
Moisture content influences dormancy of stored loblolly pine seed. art. 219
Moisture stress in loblolly pines. Oleoresin exudation pressure and relative water content of inner bark as indicators of. art. 392
Monoterpene composition of ponderosa pine xylem resin. Intratree measurements of the. art. 418
Monte Carlo study of distance measures in sampling for spatial distribution in forest stands. art. 127
Moraine ash, an Australian evergreen, and Peruvian peppertree. First season growth of. art. 325
Morphological and chemical differences between sapwood, discolored sapwood, and heartwood in black locust and osage orange. art. 334
Multiple flushing in eastern white pine. art. 66
Mycorrhizal syntheses, and conifer associates of some Pacific Northwest Suillus species. art. 304
New method for marking xylem growth. art. 102
Nitrogen and phosphorus fertilization of Pinus pinaster in Western Australia. Some effects of. art. 408
Nitrogen and soluble sugar composition of slash pine. Effects of fertilization, irrigation, and cover cropping on flowering and on. art. 172
Nodulation of Ceanothus velutinus. Relation of previous timber stand age to. art. 114
Nursery performance and seed yield of self-pollinated slash pines. art. 68
Oaks treated with systemic insecticides. Germination of acorns from. art. 427
Oak, white. Auxin inhibition of epicormic shoots in. art. 192
Oak wilt fungus. Tree-wounding insects as vectors of the. art. 181
Oleoresin exudation pressure and relative water content of inner bark as indicators of moisture stress in loblolly pines. art. 392
Oleoresin exudation pressure in loblolly pine. Measurement of. art. 75
Oleoresin, small samples. Collection and vacuum distillation of. art. 190
Osage orange and black locust. Morphological and chemical differences between sapwood, discolored sapwood, and heartwood in. art. 334
Peruvian peppertree, an Australian evergreen, and Moraine ash. First season growth of. art. 325
Pests and diseases. Timber. rev. 30
Phenolics, p-Hydroxybenzaldehyde and other, as feeding stimulants for the smaller European bark beetle. art. 91
Phosphatic fertilizers. Effect of two on yield, financial yield, and wood quality of radiata pine. art. 282
Phosphorus and nitrogen fertilization of Pinus pinaster in Western Australia. Some effects of. art. 408
p-Hydroxybenzaldehyde and other phenolics as feeding stimulants for the smaller European bark beetle. art. 91
Pine and cottonwood. Auxin and cell wall formation in the cambial derivatives of. art. 197
Pine callus on a defined medium. Culture of. art. 62
Pine, eastern white. Multiple flushing in. art. 66

Pine, eastern and western white. Comparison of the translocation and persistence of cycloheximide (Acti-dione) in. art. 275
Pine, loblolly. Duration of stump susceptibility to infection by Fomes annosus. art. 206
Pine, loblolly. Fixation of introduced dyes in tissue of. art. 170
Pine, loblolly. Free and protein-bound amino acids in inner bark of. art. 330
Pine, loblolly. Inheritance of spiral grain in young. art. 376
Pine, loblolly. Measurement of oleoresin exudation pressure in. art. 75
Pine, loblolly. Moisture content influences dormancy of stored seed. art. 219
Pines, loblolly. Oleoresin exudation pressure and relative water content of inner bark as indicators of moisture stress in. art. 392
Pine, loblolly, root systems. Distribution of available carbohydrates in planted. art. 301
Pine, longleaf, associated with brown-spot resistance and early commencement of height growth. Rust susceptibility in. art. 323
Pine, longleaf. Producing genetically identical seedlings. art. 312
Pine, ponderosa, xylem resin. Intratree measurements of the monoterpene composition of. art. 418
Pine, radiata. Effect of two phosphatic fertilizers on yield, financial yield, and wood quality of. art. 282
Pine, red. The effect of fertilization and depth to ground water on wood deposition in. art. 2
Pine, slash. Effects of fertilization, irrigation, and cover cropping on flowering and on nitrogen and soluble sugar composition of. art. 172
Pine, slash. Growth in relation to density for plantations after first thinning. art. 7
Pine, slash. Growth of horizontal roots, height, and diameter of planted. art. 265
Pines, slash, self-pollinated. Seed yield and nursery performance of. art. 68
Pinus flexilis. Chemical verification of the hybrid of Pinus monticola and. art. 119
Pinus khasya. Chemical composition of turpentine from. art. 55
Pinus monticola and Pinus flexilis. Chemical verification of the hybrid of. art. 119
Pinus pinaster in Western Australia. Some effects of nitrogen and phosphorus fertilization of. art. 408
Plant water potential of forest tree species. Evaluation of the pressure chamber technique for estimating. art. 369
Pollen, heat-treated, for aspen haploid production. The use of. art. 406
Pollen sampler. A water-trap. art. 105
Polyporus tomentosus and Coniophora puteana in living and dying white spruce. Rates of decay by. art. 122
Predictability of individual tree growth using various definitions of competing basal area. art. 314
Pressure chamber technique for estimating plant water potential of forest tree species. Evaluation of the. art. 369
Problem of sampling in studies of tracheid length in conifers. art. 140
Producing genetically identical longleaf pine seedlings. art. 312
Programming, dynamic, to determine optimum levels of growing stock. art. 287
Pythiaceous fungi isolated from southern forest nursery soils and their pathogenicity to pine seedlings. art. 292
Rates of decay by Coniophora puteana and Polyporus tomentosus in living and dying white spruce. art. 122
Redwood trees. Variation of specific gravity, extractive content, anf tracheid length in. art. 148
Relation of previous timber stand age to nodulation of Ceanothus velutinus. art. 114
Relationship between density of quaking aspen and incidence of hypoxylon canker. art. 107
Role of light, concentration, and species in foliar uptake of herbicides in woody plants. art. 164
Rust susceptibility in longleaf pine associated with brown-spot resistance and early commencement of height growth. art. 323
Sample confidence limits. A shortcut for determining. art. 380
Sampling for spatial distribution in forest stands. A Monte Carlo study of distance measures in. art. 127
Sampling in studies of tracheid length in conifers. The problem of. art. 140
Sampling populations of the jack-pine budworm. Technique for. art. 277
Saw-palmetto, carbohydrate reserves of: Seasonal variation and effects of burning. art. 399
Scheduling Douglas-fir reforestation investments: A comparison of methods. art. 354
Sectioning fresh leaves of woody plants. A simplified carbowax embedding technique for. art. 298
Seed of several Southwestern woody species. Hydrogen peroxide increases germination and reduces microflora on. art. 96
Seed source. Sweetgum seed stratification requirements related to winter climate at. art. 16

Seed stratification requirements related to winter climate at seed source. Sweetgum. art. 16
Seed, tree. A laboratory device for weight-sorting. art. 217
Seed yield and nursery performance of self-pollinated slash pines. art. 68
Seedling growth, comparative, of four hardwood species. art. 27
Self-pollinated slash pines. Seed yield and nursery performance of. art. 68
Shortcut for determining sample confidence limits. art. 380
Simplified carbowax embedding technique for sectioning fresh leaves of woody plants. art. 298
Socioeconomic variables related to campsite use. art. 45
Solar radiation measurements under a spruce and a birch canopy during May and June. art. 31
Some effects of nitrogen and phosphorus fertilization of Pinus pinaster in Western Australia. art. 408
Spatial distribution in forest stands. A Monte Carlo study of distance measures in sampling for. art. 127
Specific gravity, extractive content, and tracheid length in redwood trees. Variation of. art. 148
Spiral grain in young loblolly pine. Inheritance of. art. 376
Spruce and a birch canopy during May and June. Solar radiation measurements under a. art. 31
Spruce, white, living and dying. Rates of decay by Coniophora puteana and Polyporus tomentosus in. art. 122
Stump susceptibility of loblolly pine to infection by Fomes annosus. Duration of. art. 206
Suillus species, Pacific Northwest. Conifer associates and mycorrhizal syntheses of some. art. 304
Sweetgum seed stratification requirements related to winter climate at seed source. art. 16
Systemic insecticides. Germination of acorns from oaks treated with. art. 427
Technique for sampling populations of the jack-pine budworm. art. 277
Theory of decision under uncertainty and possible applications in forest management. art. 156
Thinning. Growth in relation to density for slash pine plantations after first. art. 7
3-P sampling and some alternatives, I. art. 429
Timber pests and diseases. rev. 30
Tracheid length in conifers. The problem of sampling in studies of. art. 140
Tracheid length, specific gravity, and extractive content in redwood trees. Variation of. art. 148
Tree-wounding insects as vectors of the oak wilt fungus. art. 181
Turpentine from Pinus khasya. Chemical composition of. art. 55
Use of heat-treated pollen for aspen haploid production. art. 406
VARCOM: A computer program used for determination of variance components. art. 419
Variance components. VARCOM: A computer program used for determination of. art. 419
Variation of specific gravity, extractive content, and tracheid length in redwood trees. art. 148
Volume tables and a system of taper for red alder. Development of. art. 339
Water content, relative, and oleoresin exudation pressure of inner bark as indicators of moisture stress in loblolly pines. art. 392
Water-trap pollen sampler. art. 105
Weekly height growth of cottonwood. art. 212
Weight-sorting tree seed. A laboratory device for. art. 217
Wood deposition in red pine. The effect of fertilization and depth to ground water on. art. 2
World pulpwood. rev. 368
Yellow-poplar. Microsite and height growth of. art. 420
Xylem growth. A new method for marking. art. 102

BY AUTHOR

Akin, Garth S. art. 287
Allen, Douglas C. art. 277
Amidon, Elliot L. art. 287
Anderson, Gerald W. art. 107
Anderson, Ralph L. art. 107
Arganbright, Donald G. art. 148
Attiwill, P. M. art. 13
Avery, Eugene T. rev. 38
Bamber, R. K. art. 282
Baker, George A. art. 325
Baker, James E. art. 91
Bannan, M. W. art. 140
Barker, Philip A. art. 325
Barnes, R. L. art. 172
Barnett, J. P. art. 219
Barnett, J. P. art. 312
Barras, Stanley J. art. 330
Behan, Mark J. art. 217
Bengtson, G. W. art. 172
Boggess, W. R. art. 420
Bovey, R. W. art. 164

Bowersox, T. W. art. 192
Brandt, R. W. art. (rev.) 30
Bromley, W. S. art. (rev.) 368
Brown, Claud L. art. 62
Browne, Cicely art. 376
Bruce, David art. 339
Bullard, Roger W. art. 39
Campbell, Dan L. art. 39
Campbell, N. A. art. 429
Campbell, Robert W. art. (rev.) 351
Campbell, W. A. art. 292
Carow, John art. (rev.) 38
Carron, L. T. rev. 454
Carvell, Kenneth L. art. 427
Chichester, F. W. art. 114
Clark, L. R. rev. 351
Collicott, L. V. art. 7
Cooling, E. N. art. 55
Cornwell, S. M. art. 64
Costello, Kathleen art. 55
Curtis, Robert O. art. 339
Davis, F. S. art. 164
Dell, T. R. art. 7
Denyer, W. B. G. art. 122
Derr, H. J. art. 312
Dorsey, C. K. art. 427
Duffield, J. W. art. (rev.) 398
Einspahr, Dean W. art. 406
Ek, Alan R. art. 380
Findlay, W. P. K. rev. 30
Foltz, John L. art. 277
Foote, K. C. art. 222
Frayer, Warren E. art. 419
Gentle, S. W. art. 282
Gessel, S. P. art. (rev.) 374
Geyer, W. A. art. 420
Giese, R. L. art. 242
Gilmore, A. R. art. 420
Grand, Larry F. art. 304
Grosenbaugh, L. R. Comment. 453
Hart, John H. art. 334
Hay, Ronald L. art. 301
Hendrix, Floyd F., Jr. art. 292
Hermann, R. K. art. (rev.) 147
Hibben, C. R. art. 298
Hodges, John D. art. 75
Hodges, John D. art. 330
Hodges John D. art. 392
Hoff, Raymond J. art. 119
Holdridge, L. R. rev. 382
Hough, Walter A. art. 399
Howard, Richard A. art. 77
Humphreys, F. R. art. 282
Iannaccone, P. art. 222
Kaufman, C. M. art. 265
Kaufmann, Merrill R. art. 369
Keay, J. art. 408
Kenady, Reid M. art. 105
King, David A. art. 45
Knight, Fred B. art. 277
Lawrence, Robert H. art. 62
Leaphart, Charles D. art. 275
Lorio, Peter L., Jr. art. 75
Lorio, Peter L., Jr. art. 392
Lukes, Anthony J., Jr. 217
Lyr, Horst rev. 196
Madgwick, H. A. I. art. 27
Mattson, William J., Jr. art. 277
Mauldin, Joe K. art. 330
Mawson, Joseph C. art. 127
McLemore, B. F. art. 219
McLemore, B. F. art. 312
McManus, M. L. art. 242
Merkle, M. G. art. 164
Miller, W. Frank art. (rev.) 382
Minckler, Leon S. art. 212
Mirov, Nicholas T. art. 55
Newhouse, M. E. art. 27
Newnham, R. M. art. 254
Norris, Dale M. art. 91
Opie, Jack E. art. 314
Osborn, Katherine H. art. 224
Overholser, James L. art. 224
Ovington, J. D. art. 13
Owston, Peyton W. art. 66
Phelps, William R. art. 275
Rainey, Donald P. art. 91
Resch, Helmuth art. 148
Rexrode, Charles O. art. 181
Riffle, J. W. art. 96
Romberger, J. A. art. (rev.) 196
Romberger, J. A. rev. 398
Ross, Eldon W. art. 206
Rypáček, Vladimir rev. 101
Schaedle, M. art. 222
Schomaker, C. E. art. 31
Schreuder, Hans T. art. 429
Sedransk, Joseph art. 429
Shafer, Elwood L., Jr. art. 383
Smith, Richard H. art. 418
Snajberk, Karel art. 55
Snyder, E. B. art. 68
Sopper, William E. rev. 374
Speidel, Gerhard rev. 286
Springfield, H. W. art. 96
Stone, E. L. art. 64
Stonecypher, Roy W. art. 376
Stransky, John J. art. (rev.) 101
Stransky, John J. art. (rev.) 286
Streyffert, Thorsten rev. 368
Strong, F. M. art. 91
Sziklai, O. art. (rev.) 171
Teeguarden, Dennis E. art. 354
Tepper, Herbert B. art. 2
Thompson, Emmett F. art. 156
Thompson, Roger C. art. 383
Tinus, R. W. art. 190
Tryon, E. H. art. 427
Turton, A. G. art. 408
Valentine, Fredrick A. art. 2
Vancoevering, Caryanne art. 339
Van Wagner, C. E. art. 20
Von Sperber, Hans-Leopold art. 354
Wakeley, Philip C. art. 323
Ward, W. W. art. 192
Ware, Kenneth D. art. 429
Werner, Richard A. art. 170
West, William I. art. 224
Whitmore, F. W. art. 197
Whitney, R. D. art. 122
Wilcox, Hugh E. art. 2
Wilcox, James R. art. 16
Wilson, Brayton F. art. 77
Winton, Lawson L. art. 406
Woerheide, John D. art. 212
Wollum, A. G. II art. 114
Wolter, Karl E. art. 102
Woods, Frank W. art. 301
Young, Harold E. art. (rev.) 454
Youngberg, C. T. art. 114
Zavarin, Eugene art. 55
Zobel, Bruce art. 376